CALIFORNIA DIVISION OF MINES AND GEOLOGY
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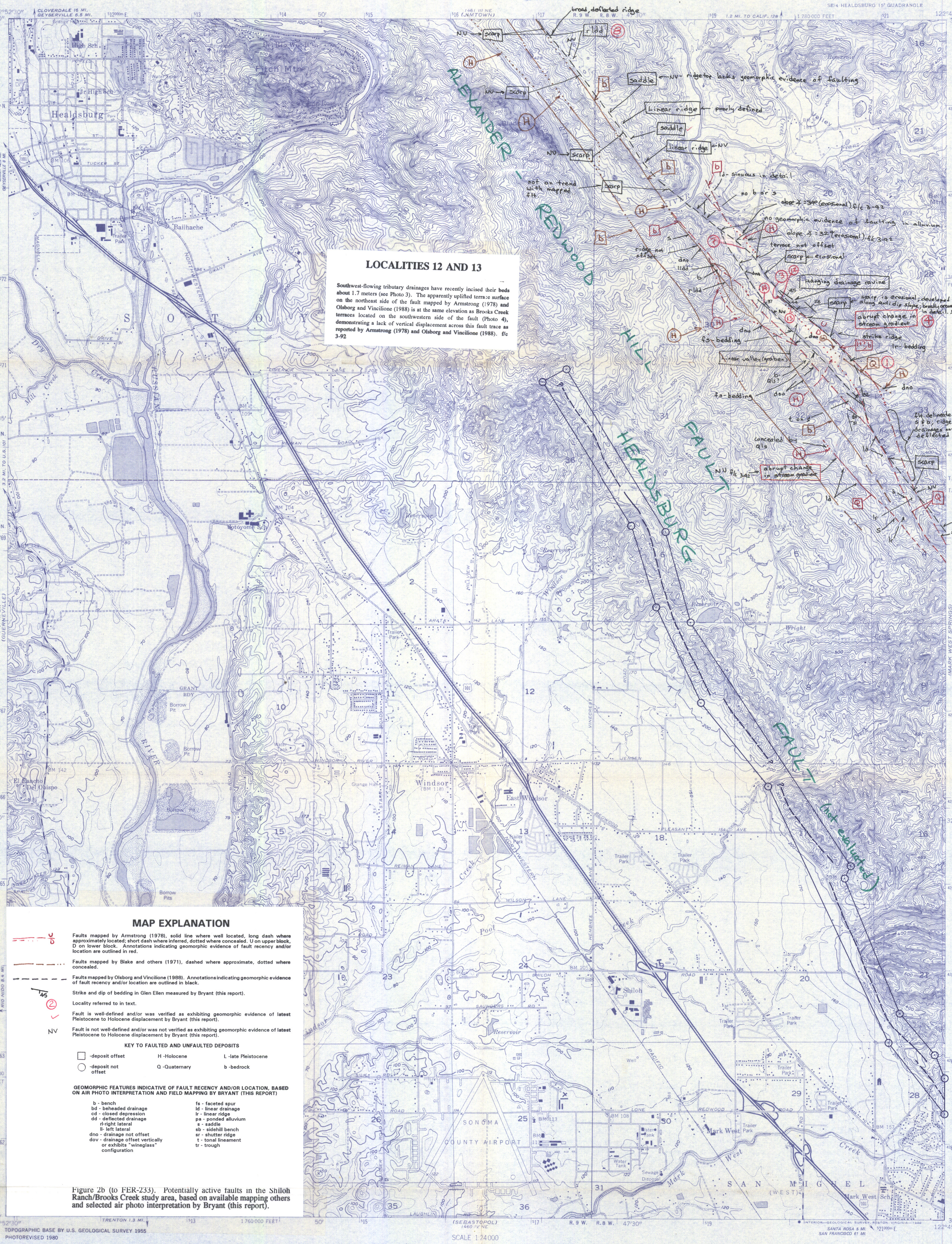
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF CONSERVATION

HEALDSBURG QUADRANGLE
CALIFORNIA—SONOMA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 HEALDSBURG 15' QUADRANGLE



LOCALITIES 12 AND 13

Southwest-flowing tributary drainages have recently incised their beds about 1.7 meters (see Photo 3). The apparently uplifted terrace surface on the northeast side of the fault mapped by Armstrong (1978) and Olsborg and Vincilione (1988) is at the same elevation as Brooks Creek terraces located on the southwestern side of the fault (Photo 4), demonstrating a lack of vertical displacement across this fault trace as reported by Armstrong (1978) and Olsborg and Vincilione (1988). f/c 3-92

MAP EXPLANATION

Faults mapped by Armstrong (1978), solid line where well located, long dash where approximately located; short dash where inferred, dotted where concealed. U on upper block, D on lower block. Annotations indicating geomorphic evidence of fault recency and/or location are outlined in red.

Faults mapped by Blake and others (1971), dashed where approximate, dotted where concealed.

Faults mapped by Olsborg and Vincilione (1988). Annotations indicating geomorphic evidence of fault recency and/or location are outlined in black.

Strike and dip of bedding in Glen Ellen measured by Bryant (this report).

Locality referred to in text.

Fault is well-defined and/or was verified as exhibiting geomorphic evidence of latest Pleistocene to Holocene displacement by Bryant (this report).

NV Fault is not well-defined and/or was not verified as exhibiting geomorphic evidence of latest Pleistocene to Holocene displacement by Bryant (this report).

KEY TO FAULTED AND UNFAULTED DEPOSITS

☐ -deposit offset	H -Holocene	L -late Pleistocene
◯ -deposit not offset	Q -Quaternary	b -bedrock

GEOMORPHIC FEATURES INDICATIVE OF FAULT RECENCY AND/OR LOCATION, BASED ON AIR PHOTO INTERPRETATION AND FIELD MAPPING BY BRYANT (THIS REPORT)

b - bench	fs - faceted spur
bd - beheaded drainage	ld - linear drainage
cd - closed depression	lr - linear ridge
dd - deflected drainage	pa - ponded alluvium
rl-right lateral	s - saddle
ll- left lateral	sb - sidehill bench
dno - drainage not offset	sr - shutter ridge
dov - drainage offset vertically or exhibits "wineglass" configuration	t - tonal lineament
	tr - trough

Figure 2b (to FER-233). Potentially active faults in the Shiloh Ranch/Brooks Creek study area, based on available mapping others and selected air photo interpretation by Bryant (this report).

SCALE 1:24000

CONTOUR INTERVAL 20 FEET
DASHED LINES REPRESENT 10-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

MAP EXPLANATION

Potentially Active Faults

1906 C — Faults considered to have been active during Holocene time and to have a relatively high potential for surface rupture; solid line where accurately located, long dash where approximately located, short dash where inferred, dotted where concealed; query (?) indicates additional uncertainty. Evidence of historic offset indicated by year of earthquake-associated event or C for displacement caused by creep or possible creep.

Special Studies Zone Boundaries

These are delineated as straight-line segments that connect encircled turning points so as to define special studies zone segments.

Seaward projection of zone boundary.

STATE OF CALIFORNIA
SPECIAL STUDIES ZONES

Delineated in compliance with Chapter 7.5, Division 2 of the California Public Resources Code
(Alquist-Priolo Special Studies Zones Act)

HEALDSBURG QUADRANGLE

REVISED OFFICIAL MAP

Effective: July 1, 1983

James F. Davis State Geologist

REFERENCES USED TO COMPILE FAULT DATA

Healdsburg Quadrangle

Bryant, W.A., 1982, Healdsburg, Maacama, and related faults, Geyserville, Healdsburg, Jimtown, Mark West Springs, and Mount St. Helena quadrangles: California Division of Mines and Geology Fault Evaluation Report FER-135 (unpublished).

Herd, D.G., Helley, E.J., and Rogers, B.W., 1977, Map of Quaternary faulting along the southern Maacama fault zone, California: U.S. Geological Survey Open File Map 77-453, 7 sheets.

Huffman, M.E. and Armstrong, C.F., 1980, Geology for planning in Sonoma County: California Division of Mines and Geology Special Report 120, 31 p., 8 plates.

For additional information on faults in this map area, the rationale used for zoning, and additional references consulted, refer to unpublished Fault Evaluation Reports on file at the San Francisco District Office of CDMG.

IMPORTANT - PLEASE NOTE

1) *This map may not show all faults that have the potential for surface fault rupture, either within the special studies zones or outside their boundaries.*
2) Faults shown are the basis for establishing the boundaries of the special studies zones.
3) The identification and location of these faults are based on the best available data. However, the quality of data used is varied. Traces have been drawn as accurately as possible at this map scale.
4) Fault information on this map is not sufficent to serve as a substitute for the geologic site investigations (special studies) required under Chapter 7.5 of Division 2 of the California Public Resources Code.

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